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Publications of the Disaster Prevention Research Institute

The Disaster Prevention Research Institute has published the achievements of its research activities in two kinds of publications, namely "Annuals (in Japanese)" and "Bulletins". Bulletins having been monographs published on occasion. Annuals will continue to be published in the same style as before. Bulletin, however, has been changed into a new style with the title of "Bulletin of the Disaster Prevention Research Institute" as seen in this publication.

One Volume of the new Bulletin will be divided into four Parts published quarterly, each Part including several articles. Bulletins to be published in this academic year (April, 1964~March, 1965) will constitute Volume 14. Corresponding to the new style of publication, Bulletins already published (No. 1~No. 70) are re-numbered as seen in the end of this publication.

Bulletins already published

Volume 1 (1951-52)

- No. 1 On the Propagation of Flood Waves, by Shōitirō Hayami, 1951.
 No. 2 On the Effect of Sand Storm in Controlling the Mouth of the Kiku River, by Tōjirō Ishihara and Yūichi Iwagaki, 1952.

Volume 2 (1952-53)

- No. 3 Observation of Tidal Strain of the Earth (Part I), by Kenzo Sassa, Izuo Ozawa and Soji Yoshikawa. And Observations of Tidal Strain of the Earth by the Extensometer (Part II), by Izuo Ozawa, 1952.

Volume 3 (1953-54)

- No. 4 Earthquake Damages and Elastic Properties of the Ground, by Ryō Tanabashi and Hatsuo Ishizaki, 1953.
 No. 5 Some Studies on Beach Erosions, by Shōitirō Hayami, Tōjirō Ishihara and Yūichi Iwagaki, 1953.
 No. 6 Study on Some Phenomena Foretelling the Occurrence of Destructive Earthquakes, by Eiichi Nishimura, 1953.
 No. 7 Vibration Problems of Skyscraper. Destructive Elements of Seismic Waves for Structures, by Ryo Tanabashi, Takuzi Kobori and Kiyoshi Kaneta, 1954.

Volume 4 (1954-55)

- No. 8 Studies on the Failure and the Settlement of Foundations, by Sakuro Murayama, 1954.

Volume 5 (1955-56)

- No. 9 Experimental Studies on Meteorological Tsunamis Traveling up the Rivers and Canals in Osaka City, by Shoitiro Hayami, Katsumasa Yano, Shohei Adachi and Hideaki Kunishi, 1955.
 No. 10 Fundamental Studies on the Runoff Analysis by Characteristics, by Yuichi Iwagaki, 1955.
 No. 11 Fundamental Considerations on the Earthquake Resistant Properties of the Earth Dam, by Motohiro Hatanaka, 1955.
 No. 12 The Effect of the Moisture Content on the Strength of an Alluvial Clay, by Sakurō Murayama, Kōichi Akai and Tōru Shibata, 1955.
 No. 13 On Phenomena Forerunning Earthquakes, by Kenzō Sassa and Eiichi Nishimura, 1956.
 No. 14 A Theoretical Study on Differential Settlements of Structures, by Yoshitsura Yokoo and Kunio Yamagata, 1956.

Volume 6 (1956-57)

- No. 15 Study on Elastic Strain of the Ground in Earth Tides, by Izuo Ozawa, 1957.
 No. 16 Consideration on Mechanism of Structural Cracking of Reinforced Concrete Buildings Due to Concrete Shrinkage, by Y. Yokoo and S. Tsunoda, 1957.
 No. 17 On the Stress Analysis and the Stability Computation of Earth Embankments, by Kōichi Akai, 1957.

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- No. 18 On the Numerical Solutions of Harmonic, Biharmonic and Similar Equations by the Difference Method not Through Successive Approximations, by Hatsuo Ishizaki, 1957.
 No. 19 On the Application of the Unit Hydrograph Method to Runoff Analysis for Rivers in Japan, by Tojiro Ishihara and Akiharu Kanamaru, 1958.
 No. 20 Analysis of Statically Indeterminate Structures in the Ultimate State, by Ryo Tanabashi, 1958.
 No. 21 The Propagation of Waves near Explosion and Fracture of Rock (I), by Sōji Yoshikawa, 1958.
 No. 22 On the Second Volcanic Micro-Tremor at the Volcano Aso, by Michiyasu Shima,

1958.

Volume 8 (1958-59)

- No. 23 On the Observation of the Crustal Deformation and Meteorological Effect on It at Ide Observatory. and On the Crustal Deformation Due to Full Water and Accumulating Sand in the Sabo-Dam, by Michio Takada, 1958.
- No. 24 On the Character of Seepage Water and Their Effect on the Stability of Earth Embankments, by Kōichi Akai, 1958.
- No. 25 On the Thermoelasticity in the Semi-infinite Elastic Solid, by Michiyasu Shima, 1958.
- No. 26 On the Rheological Characters of Clay (Part 1), by Sakurō Murayama and Tōru Shibata, 1958.
- No. 27 On the Observing Instruments and Tele-metrical Devices of Extensometers and Tiltmeters at Ide Observatory. and On the Crustal Strain Accompanied by a Great Earthquake, by Michio Takada, 1959.
- No. 28 On the Sensitivity of Clay, by Shinichi Yamaguchi, 1959.
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- No. 31 On the Possibility of the Metallic Transition of MgO Crystal at the Boundary of the Earth's Core, by Tatsuhiko Wada, 1960.
- No. 32 Variation of the Elastic Wave Velocities of Rocks in the Process of Deformation and Fracture under High Pressure, by Shogo Matsushima, 1960.
- No. 33 Basic Studies on Hydraulic Performances of Overflow Spillways and Diversion Weirs, by Tojiro Ishihara, Yoshiaki Iwasa and Kazune Ihda, 1960.

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- No. 34 Volcanic Micro-tremors at the Volcano Aso, by Michiyasu Shima, 1960.
- No. 35 On the Safety of Structures Against Earthquakes, by Ryo Tanabashi, 1960.
- No. 36 On the Flow and Fracture of Igneous Rocks. and on the Deformation and Fracture of Granite under High Confining Pressure, by Shogo Matsushima, 1960.
- No. 37 On the physical properties within the B-layer deduced from olivine-model and on the possibility of polymorphic transition from olivine to spinel at the 20° Discontinuity, by Tatsuhiko Wada, 1960.
- No. 38 On Origins of the Region C and the Core of the Earth —Ionic-Intermetallic-Metallic Transition Hypothesis— by Tatsuhiko Wada, 1960.
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- No. 46 On the Observations of the Earth Tide by Means of Extensometers in Horizontal Components, by Izuo Ozawa, 1961.

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- No. 47 Observational Study on Microseisms (Part 2), by Kennosuke Okano, 1961.
- No. 48 On the Crustal Movement Accompanying with the Recent Activity of the Volcano Sakurajima (Part 1), by Keizo Yoshikawa, 1961.
- No. 49 The Ground Motion Near Explosion, by Sōji Yoshikawa, 1961.
- No. 50 On the Crustal Movement Accompanying with the Recent Activity of the Volcano Sakurajima (Part 2), by Keizo Yoshikawa, 1961.
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- No. 53 Some Problems on Time Change of Gravity (Parts 1 and 2), by Ichiro Nakagawa, 1962.
- No. 54 Nature of the Volcanic Micro-Tremors at the Volcano Aso, Part 1. Observation of a New Type of Long-Period Micro-Tremors by Long-Period Seismograph, by Kōsuke Kamo, 1962.
- No. 55 Nature of the Volcanic Micro-Tremors at the Volcano Aso, Part 2. Some Natures of the Volcanic Micro-Tremors of the 1st kind at the Volcano Aso, by Kōsuke Kamo, 1962.
- No. 56 Nonlinear Torsional Vibration of Structures due to an Earthquake, by Ryo Tanabashi, Takuji Kobori and Kiyoshi Kaneta, 1962.

Volume 12 (1962-63)

- No. 57 Some Problems on Time Change of Gravity (Parts 3, 4 and 5), by Ichiro Nakagawa, 1962.
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- No. 60 The Effect of Surface Temperature on the Crustal Deformations, by Shokichi Nakano, 1963.
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- No. 62 The Crustal Deformations due to the Source of Crack Type (1) by Shokichi Nakano, 1963.

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- No. 63 Basic Studies on the Criterion for Scour Resulting from Flows Downstream of an Outlet, by Yoshito Tsuchiya, 1963.
- No. 64 On the Diffraction of Elastic Plane Pulses by a Crack of a Half Plane (Three Dimensional Problem), by Michiyasu Shima, 1963.
- No. 65 A Study on Runoff Pattern and its Characteristics by Tojiro Ishihara and Takuma Takasao, 1963.
- No. 66 Application of Extreme Value Distribution in Hydrologic Frequency Analysis by Mutsumi Kadoya, 1964.
- No. 67 Investigation on the Origin Mechanism of Earthquakes by the Fourier Analysis of Seismic Body Waves (I), by Yosimichi Kishimoto, 1964.
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- No. 70 Application of Probability Theory of Two-Dimensions in Determining Design Flood, by Yasuo Ishihara and Masashi Nagao, 1964.

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